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Escola Superior d'Enginyeries Industrial,
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BEKASI-EAST JAKARTA AIRPORT GROUND SIDE

Report

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Contents

List of Tables	iii
List of Figures	iv
1 Prognosis	1
1.1 Aviation context in Indonesia	1
1.1.1 Airport location	1
1.1.2 Current traffic	1
1.1.3 Occupation factor	1
1.2 Reference aircraft	1
1.2.1 Aircraft type	1
1.2.2 Conclusions	1
1.3 Forecast computation	1
1.3.1 Flights on standard day	1
1.3.2 Surface distribution	1
2 Terminal building distribution	2
2.1 Basic dimensions of the terminal building	2
2.2 Surface distribution	2
3 Structural typology description	3
3.1 Foundation	3
3.2 Vertical elements	3
3.3 Forge	3
4 Indoor paving	4
4.1 Typology	4
4.2 Floor covering	4
4.2.1 Structural base	4
4.2.2 Intermediate layers without buttress function	4
4.2.3 Leveling layer	4
4.2.4 Grip layer	4
4.3 Design	4
4.4 Superficial layer	4



4.4.1	Common areas paving	4
4.4.2	Stairways	4
4.4.3	Restroom paving	4
4.4.4	Offices paving	4
4.4.5	Automatic baggage handling system paving	4
5	Facade	5
5.1	Front and back facade	5
5.1.1	Requirements and adopted solution	5
5.1.2	Glass	5
5.1.3	Spider system with steel pillars	5
5.1.4	Steel and concrete mixed columns	5
5.2	Lateral facade	5
5.2.1	Facade (prefabricated concrete)	5
5.3	Other elements	5
5.3.1	Main door and other sliding doors	5
5.3.2	Access bridges	5
5.3.3	Emergency doors	5
5.3.4	Automatic baggage handling system doors	5
6	Building cover	6
6.1	Adopted solution	6
6.2	Shape and inclination of the building cover	6
6.3	Used materials	6
6.4	Sewer system	6
7	Indoor closures	7
7.1	Walls	7
7.2	Doors	7
7.2.1	Baggage claim hall doors	7
7.2.2	Office access and automatic baggage handling system access doors . . .	7
8	Fire prevention regulations	8
8.1	Fire prevention regulations and chosen materials	8
8.1.1	Building elements	8
8.1.2	Materials	8
9	Bibliography	9



List of Tables



List of Figures



1 | Prognosis

1.1 Aviation context in Indonesia

Indonesia is the fourth most populated country in the world and the largest economy in south-east Asia. Indonesia is a growing touristic destination. It's topography which is composed by many island makes essential the domestic air transport.

1.1.1 Airport location

1.1.2 Current traffic

1.1.3 Occupation factor

1.2 Reference aircraft

Hola

1.2.1 Aircraft type

1.2.2 Conclusions

1.3 Forecast computation

1.3.1 Flights on standard day

1.3.2 Surface distribution



2 | Terminal building distribution

2.1 Basic dimensions of the terminal building

2.2 Surface distribution



3 | Structural typology description

3.1 Foundation

3.2 Vertical elements

3.3 Forge



4 | Indoor paving

4.1 Typology

4.2 Floor covering

4.2.1 Structural base

4.2.2 Intermediate layers without buttress function

4.2.3 Leveling layer

4.2.4 Grip layer

4.3 Design

4.4 Superficial layer

4.4.1 Common areas paving

4.4.2 Stairways

4.4.3 Restroom paving

4.4.4 Offices paving

4.4.5 Automatic baggage handling system paving



5 | Facade

5.1 Front and back facade

5.1.1 Requirements and adopted solution

5.1.2 Glass

5.1.3 Spider system with steel pillars

5.1.4 Steel and concrete mixed columns

5.2 Lateral facade

5.2.1 Facade (prefabricated concrete)

5.3 Other elements

5.3.1 Main door and other sliding doors

5.3.2 Access bridges

5.3.3 Emergency doors

5.3.4 Automatic baggage handling system doors



6 | Building cover

6.1 Adopted solution

6.2 Shape and inclination of the building cover

6.3 Used materials

6.4 Sewer system



7 | Indoor closures

7.1 Walls

7.2 Doors

7.2.1 Baggage claim hall doors

7.2.2 Office access and automatic baggage handling system access doors



8 | Fire prevention regulations

8.1 Fire prevention regulations and chosen materials

8.1.1 Building elements

8.1.2 Materials



9 | Bibliography